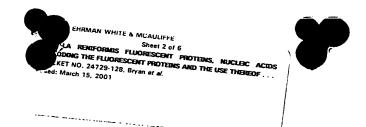
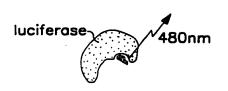


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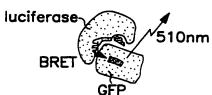
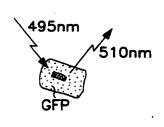


FIGURE 2A

FIGURE 2C



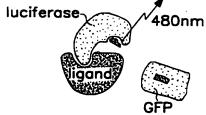


FIGURE 2B

FIGURE 2D

15°











optimized energy transfer module

simple conformational change









complex conformational change

association/dissociation









small molecule interference

large molecule interference



luciferase



GFP



antibody fragment

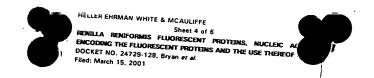


protein domain...



small molecule

BRET sensors are depicted for permissive and non-permissive binding states of the target molecules. Binding may be modulated by varying temperature or ionic strength.



Utilization of advantageous GFP surfaces with substituted fluorophores

		60	*	80		
RM-GFP	:	GAPLPFAFD	IVSPAFOYC	NRTFTKYPNDIS-		
Pt-GFP	-	CCDI DES ED	Titata	447 T T T T T T T T T T T T T T T T T T	:	83
-	-	GGETER WED	TARTALÖACI	NRTFTKYPDDIA-	•	8.3
RR-GFP	:	GAPLPFAFD	TUSUAFSYCN	NRAYTGYPEEIS-	•	
CFP484		CARTERON	TARABLOIGE	WHITGIPEETS-	:	8:0
	•	GAPLPESYD.	LLSNAFQYGN	NRALTKYPDDIA-	- •	83
drFP583	:	GGPLPFAWD	T.SDOFOVO	KVYVKHPADIP-	•	
asFP595	_	CCDIDE	rmor Or Or G	PVAIAKHLADIE-	:	8:0
_	-	GGPLPFAFH]	LSTSCMYGS	KTFIKYVSGIP-	•	77
dsFP483	: .	GGPT.PFGWH1		KAFVHHPDNIH-	•	• • •
amFP486	-	COPELECTION	THOEOTOTON	KALAHHDDITH-	- :	8:0
	:	GGPLAFSFD]	LSTVFKYGN	RCFTAYPTSMP-		8:2
zFP506	•	GGPT DEAFNI	T C N N Filhtrecina		- •	0.2
zFP538	•	OOL DE L'HEDI	TOWALMACM	RVFTEYPQDIV-	-:	80
2117338	:	GGPLPFSEDI	LSAGFKYGD	RIFTEYPODIV-	_	8:0
						711

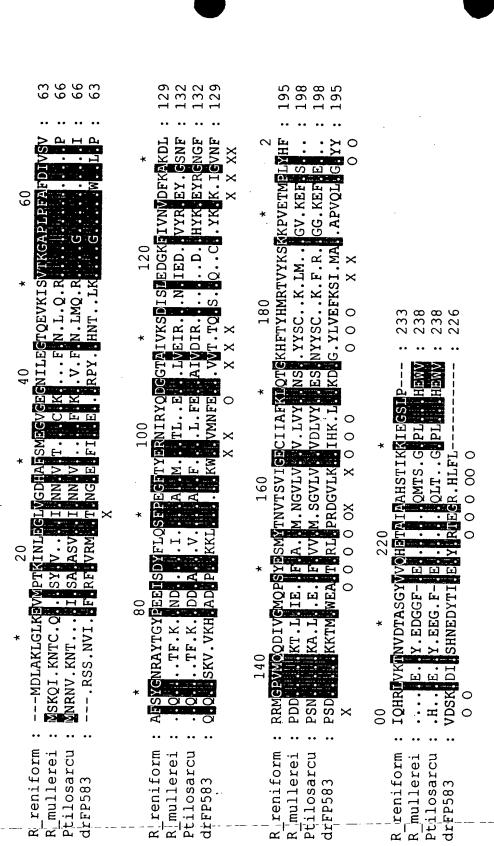


FIGURE 5

SOCKET NO. 24729-128, Bryan of A.

Sheat 5 of 6

Sheat 5 o

Aequorea

FIGURE 6

polar uncharged non-polar hydrophobic

L, I, V, M, E, Y, W

N,Q,S,T

polar charged D,E,H,K,R

hydrophilic hydrophobic

dimerization surfaces

grouped C, P

not

smal1 A, G

Filed: March 15, 2001 DOCKET NO. 24729-128, Bryan et al. FLUORESCENT PROTEINS,